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<p>(21) International Application Number: PCT/SI98/00015</p> <p>(22) International Filing Date: 29 July 1998 (29.07.98)</p> <p>(30) Priority Data: P-9700205 1 August 1997 (01.08.97) SI</p> <p>(71) Applicant (for all designated States except US): ELESTRA, D.O.O. [SI/SI]; Pot k Savi 24, 1000 Ljubljana (SI).</p> <p>(72) Inventor; and</p> <p>(75) Inventor/Applicant (for US only): VRHOVEC, Janez [SI/SI]; Pot k Savi 24, 1000 Ljubljana (SI).</p> <p>(74) Agent: PIPAN, Marjan; Kotnikova 5, 1000 Ljubljana (SI).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>
<p>(54) Title: <b>TERMINAL STRIP WITH FIXING ATTACHMENTS</b></p> <div></div> <p>(57) Abstract</p> <p>The invention refers to the terminal strip with fixing attachments, such as used in telecommunications technique and whereof the design characteristics enable simple fixing of terminal strips to profiled carriers with lapels of different shape. The terminal strip with two fixing attachments referred to in this invention is provided with two attachments (A) on both ends of the bottom side of the terminal strip whereof each constitutes two parallel sloping fixing surfaces (1, 1') with snapping protuberances turned one towards another (3, 5, 5'), offering sufficient grip at differently shaped profiled carriers.</p>		

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## TERMINAL STRIP WITH FIXING ATTACHMENTS

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The invention refers to the terminal strip with fixing attachments, such  
10 as used in telecommunications technique and whereof the design  
characteristics enable simple fixing of terminal strips to profiled carriers  
with lapels of different shape. The invention in question belongs to class H  
04 Q 17/14 of the international patent classification.

The technical problem successfully solved by the proposed design of  
15 the terminal strip involves the design and the implementation of fixing  
attachments of such form that will enable undisturbed and simple  
mounting and removal of terminal strips both at installation and at  
connection.

The known solutions of terminal strip solve the problem of fixing in  
20 different ways. Accordingly, there is known an example of terminal strip  
fixing elements, designed as lateral attachments on both ends of terminal  
strips. Such position is associated with an exactly specified place,  
because the carriers are provided with extensions which serve for  
mounting of lateral attachments of the terminal strip. In this way the

position of the terminal strip on the carrier is exactly specified, which sometimes imposes a certain problem.

There also exist terminal strips with arc-shaped snapping elements functioning as binding elements which got stuck on a round profiled terminal strip. Such solution is described in the EP 304 393 document.  
5 The deficiency of this version lies in the arc-shaped snapping elements, because terminal strips with such snapping elements can be reliably fixed on a round profiled strip only.

The terminal strip with such fixing attachments as referred to in this invention is provided with two attachments on both ends of the bottom  
10 side of the terminal strip; each of them has the form of parallel sloping fixing surfaces with snapping protuberances turned one towards another, which provide sufficient grip at differently shaped profiled carriers.

The invention in question will be explained in detail with reference to the example under discussion and with reference to the corresponding  
15 drawings whereof:

**Figure 1** shows the terminal strip with two fixing attachments referred to in this invention;

20

**Figure 2** shows the terminal strip with two fixing attachments referred to in this invention, as viewed from below;

**Figure 3** shows the terminal strip with two fixing attachments referred to in this invention, in side view;

**Figure 4** shows the detail of terminal strip fixing to differently shaped  
5                   profiled carriers through fixing attachments referred to in this  
                  invention.

The terminal strip with fixing attachments referred to in this invention, such as shown in Figures 1 through 3, is provided with two fixing  
10           attachments A on both ends of the bottom side of the terminal strip. As a matter of fact, the fixing attachment A consists of two parallel fixing surfaces 1, 1' which both together provide an appropriate grip.

The fixing surface 1 lies along the external edge of the terminal strip and, as a matter of fact, consists of a surface (as evident from Figure 3)  
15           whereof the external edges along both ends pass into U-shaped profiled edges 2. The bottom sides of the profiled edges 2 at the same time constitute the fixing areas with snapping protuberances 3.

The opposite fixing surface 1' consists of two independent and U-shaped carriers 4, 4', whereof the external halves (with reference to the  
20           position of the terminal strip) have in the lower part the snapping protuberances 5, 5' turned one towards another.

Figure 4 shows the details on fixing of the terminal strip to differently shaped profiled carriers with the fixing attachments referred to in this

invention. The fixing attachment version A, such as described above, provides for reliable grip in case of the above described shapes of profiled carriers.

The terminal strip with the fixing attachments, such as used in  
5 telecommunications technique and whereof the design characteristics allow for simple fixing of terminal strips, successfully solves the imposed technical problem with reference to both its manufacture and application.

**PATENT CLAIMS**

- 5 1. The terminal strip with two fixing attachments, provided with two attachments A on both ends of the bottom side of the terminal strip,

**characterized in that**

the two attachments (A) constitute two parallel sloping fixing surfaces (1,1') with snapping protuberances turned one towards another (3,5, 5').

10

2. The terminal strip with two fixing attachments referred to in claim 1,

**characterized in that**

the fixing surface (1) lying along the external edge of the terminal strip,  
15 consists of a surface whereof the external edges along both ends pass into U-shaped profiled edges (2), whereby the bottom sides of the profiled edges (2) at the same time constitute the fixing areas with snapping protuberances (3) and the opposite fixing surface (1') consists of two independent and U-shaped carriers (4,4'), whereof the external  
20 halves (with reference to the position of the terminal strip) have in the lower part the snapping protuberances (5,5') turned one towards another.

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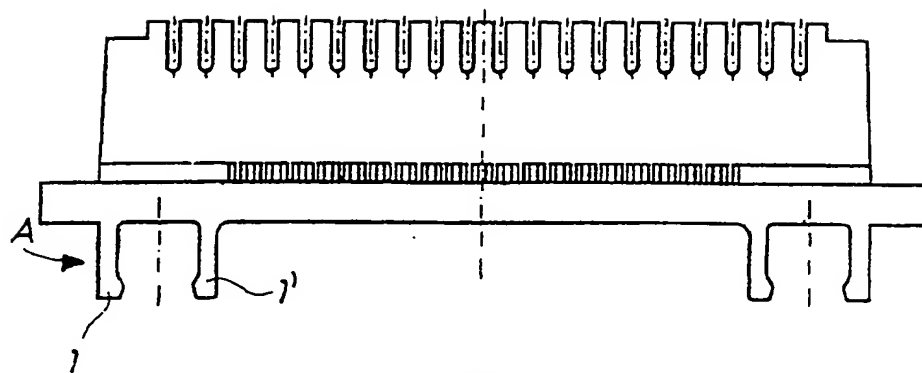


FIG. 1

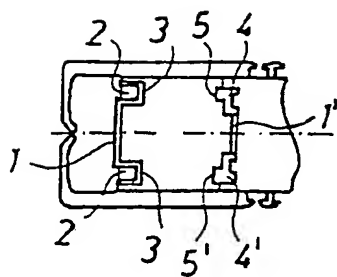


FIG. 2

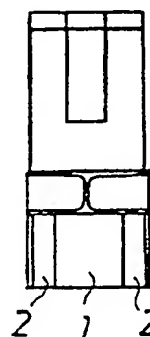


FIG. 3



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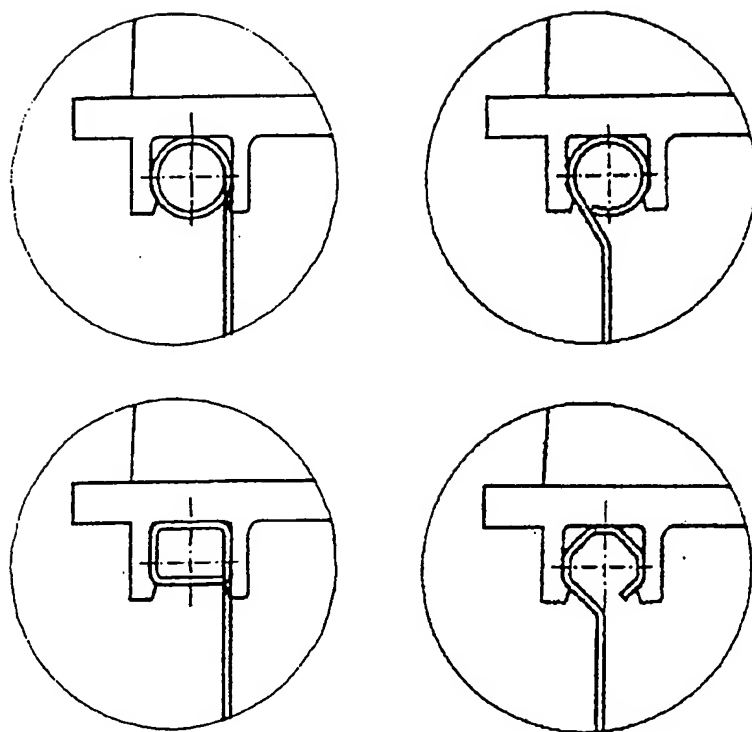


FIG. 4

# INTERNATIONAL SEARCH REPORT

Internatio Application No PCT/SI 98/00015
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## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 H04Q1/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 6 H04Q H02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97 12423 A (RELTEC CORP) 3 April 1997 see the whole document	1,2
A	EP 0 304 393 A (KRONE AG) 22 February 1989 cited in the application see column 4, line 50 - column 5, line 40; figure 10	1
A	DE 40 30 444 A (SIEMENS AG) 2 April 1992 see column 1, line 55 - line 62	1
A	DE 21 19 631 A (DAHL M.) 2 November 1972 see page 6, paragraph 1	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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